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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,640	10/28/2003	Sang Min Kim	11037-141-999 7773		
24341 MORGAN I I	7590 02/28/2007 EWIS & BOCKIUS, LLP.	EXAMINER			
2 PALO ALTO SQUARE			BALI, VIKKRAM		
3000 EL CAM PALO ALTO.		ART UNIT	PAPER NUMBER		
,			2624		
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SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	02/28/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/696,6	640	KIM, SANG MIN				
		Examine	or	Art Unit				
		Vikkram	Bali	2624				
Period f	The MAILING DATE of this communi or Reply	ication appears on th	e cover sheet with ti	he correspondence a	ddress			
WHIC - Exte afte - If No - Fail Any	CORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months at led patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and v will, by statute, cause the ap	HIS COMMUNICAT vent, however, may a reply t will expire SIX (6) MONTHS plication to become ABAND	TON. be timely filed from the mailing date of this of ONED (35 U.S.C. § 133).				
Status								
1)[🛛	Responsive to communication(s) file	d on 16 June 2005						
2a)□		2b)⊠ This action is	non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
ب	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims	•		•				
4)⊠	Claim(s) 1-15 is/are pending in the a	polication.						
•/-	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	Claim(s) <u>8-15</u> is/are allowed.							
·	Claim(s) <u>1,2 and 7</u> is/are rejected.							
7)🖂	_							
8)	Claim(s) are subject to restric	tion and/or election	requirement.	*1				
·	ion Papers		·					
· · ·	The specification is objected to by the	Eveminer						
-			cented or b	etad to by the Evamir	or			
	10)☑ The drawing(s) filed on <u>28 October 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including		=		ED 1 121/4\			
11)□	The oath or declaration is objected to	•	- ,	•	` ,			
·	•	by the Examiner.						
Priority	under 35 U.S.C. § 119		•					
•	Acknowledgment is made of a claim t ☐ All b)☐ Some * c)☐ None of:	for foreign priority ui	nder 35 U.S.C. § 119	9(a)-(d) or (f).	•			
	1.⊠ Certified copies of the priority	documents have be	en received.					
	2. Certified copies of the priority	documents have be	en received in Appli	cation No				
	3. Copies of the certified copies of	of the priority docum	ents have been rec	eived in this National	l Stage			
	application from the Internation	nal Bureau (PCT Ru	ıle 17.2(a)).					
*	See the attached detailed Office action	n for a list of the cer	tified copies not rece	eivęd.				
				•				
Attachmer	rt(s)							
	ce of References Cited (PTO-892)		4) Interview Summ	nary (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (P	TO-948)	Paper No(s)/Ma	ail Date				
3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☑ Notice of Informal Patent Application Paper No(s)/Mail Date 10/28/2003.6/16/2005. 6) ☑ Other:								
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carver et al (US 6809303).

With respect to claim 1, a fingerprint sensor temperature sensor for detecting the temperature of the fingerprint sensor (see figure 1, 150), a power source (figure 1, 140); a controller controlling the power source based on the fingerprint sensor temperature, (see col. 4, lines 38-42). However, he fails to explicitly disclose a semiconductor assembly interposed between the fingerprint sensor and the power supply for heating the fingerprint sensor, as claimed. But, as see from the figure 1, 120A and 120B, two electrodes connected two either side of the power supply i.e. positive and negative and the mesh between the two electrodes 110 that heats the fingerprint sensor as stated in col. 4, lines 7-10. also, the suggestion of having the conductive film 110 of any material (see col. 4, lines 45-46) makes it obvious to one ordinary skilled in the art at the time of invention to use a silicon material in order to make the film and the two positive and negative electrodes to be the semiconductor assembly in order to have this structure design to be able to fit on to the fingerprint sensor.

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With respect to claim 2, he further discloses a DC power source, (see col. 5, lines 6-7) as claimed.

With respect to claim 7, he fails to explicitly disclose a door unlock sensor, as claimed. But, it is well known in the field of fingerprint authentication and verification to have the fingerprint authorized in order to open/unlock the door. Therefore, it would have been obvious to one ordinary skilled on the art at the time of invention to simply use the well known feature of have the lock unlock sensors in order to have the door lock or unlock once the fingerprints are authorized.

Allowable Subject Matter

- 3. Claims 8-15 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: claims 8-15 are allowed because the prior art alone or in combination with fails to disclose, teach or suggest a fingerprint temperature sensor that includes applying a reverse bias current from the power source to the semiconductor assembly when the sensed temperature is higher than the predetermined range; and supply a forward bias current from the power source to the semiconductor assembly when the sensed temperature is lower than the predetermined range, in combination with the other limitations of the claim.
- 5. Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 571.272.7415. The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on 571.272.6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vikkram Bari

Primary Examiner

vb

February 21, 2007